

CLAIM AMENDMENTS

1. (Currently amended) A therapeutic agent which comprises as therapeutically effective ingredients: alpha-ketoglutaric acid or its pharmaceutically effective salts and ~~at least one compound~~ 5-hydroxymethyl-furfural promoting azomethine formation in an enzyme independent reaction ~~and selected from the group consisting of 5-hydroxymethyl-furfural, dehydroascorbic acid, malt and vanillin~~, whereby the mass ratio of the ketoglutaric acid to the ~~at least azomethine formation promoting compound~~ 5-hydroxymethyl-furfural is greater than 1:1 and wherein the therapeutic agent contains as further therapeutically effective ingredients: N-acetyl-seleno-L-methionine and N-acetyl-L-methionine whereby the latter is present in excess with respect to the former, in an amount sufficient to suppress uptake of the N-acetyl-seleno-L-methionine into body tissues.

2. (Previously presented) The therapeutic agent according to claim 1 characterized in that the mass ratio of alpha-ketoglutaric acid to N-acetyl-seleno-L-methionine is 100:1 to 20000:1.

3. (Previously presented) The therapeutic agent according to claim 1 wherein the mass ratio of N-acetyl-L-methionine to N-acetyl-seleno-L-methionine is 20:1 to 300:1.

1 4. (Previously presented) The therapeutic agent accord-
2 ing to claim 1 wherein it further comprises glucose, fructose or a
3 mixture thereof.

5. (Canceled)

1 6. (Previously presented) The therapeutic agent accord-
2 ing to claim 1, wherein it is put up in an aqueous solution and the
3 N-acetyl-seleno-L-methionine is present in an amount of 1.4 to 2.3
4 mg/l and the N-acetyl-L-methionine is present in an amount of 70 to
5 230 mg/l.

1 7. (Previously presented) The therapeutic agent accord-
2 ing to claim 4 wherein it contains an electrolyte from the group of
3 sodium or potassium.

1 8. (Previously presented) The therapeutic agent accord-
2 ing to claim 1 wherein it is administered intravenously and has a
3 pH value of 4 to 6.

1 9. (Currently amended) The therapeutic agent according
2 to claim 4 or claim 7 wherein the alpha-ketoglutaric acid is
3 present in a concentration of 3 to 20 g/l, the ~~compound-promoting~~
4 ~~azomethine-formation is~~ 5-hydroxymethylfurfural is present in a
5 concentration of 1 to 3 g/l, the glucose is present in a concentra-
6 tion of 20 to 100 g/l, the sodium ion is present in a concentration

7 of 60 to 160 mmol/l and the potassium ion is present in a concen-
8 tration of 15 to 40 mmol/l.

1 10. (Previously presented) The therapeutic agent accord-
2 ing to claim 9 wherein the alpha-ketoglutaric acid is present in a
3 concentration of 6 to 16 g/l, 5-hydroxymethylfurfural is present in
4 a concentration of 1 to 2.5 g/l, the glucose in a concentration of
5 20 to 50 g/l, the sodium ion in a concentration of 70 to 160 mmol/l
6 and the potassium ion is present in a concentration of 20 to 40
7 mmol/l.

1 11. (Previously presented) The therapeutic agent accord-
2 ing to claim 1 which is put up in a solid or liquid or oral or
3 rectal administration dosage form which contains the ketoglutaric
4 acid at least in part in the form of a monosodium or monopotassium
5 salt thereof.

1 12. (Previously presented) The therapeutic agent accord-
2 ing to claim 11 which further comprises a lubricating agent and/or
3 extender and/or a taste improving disaccharide.

1 13. (Previously presented) The therapeutic agent accord-
2 ing to claim 11 which comprises in the dosage unit 3 to 9 g of
3 alpha-ketoglutaric acid, 0.5 to 1.5 g 5-hydroxymethyl-furfural, 1.4
4 to 2.3 mg N-acetyl-seleno-L-methionine and 70 to 230 mg of N-
5 acetyl-L-methionine.

1 14. (Currently amended) A method of making a therapeutic
2 agent in a form suitable for intravenous administration according
3 to claim 8 wherein the alpha-ketoglutaric acid is dissolved at
4 elevated temperature in distilled water which has had its oxygen
5 content reduced by a gasification and glucose or fructose added to
6 it together with alkalies other than ammonia or amines, the pH
7 being adjusted to be in a range of 4 to 6 and N-acetyl-seleno-L-
8 methionine, N-acetyl-L-methionine and the ~~compound promoting~~
9 ~~azomethine formation~~ 5-hydroxymethyl-furfural are added.

1 15. (Currently amended) A method of making a preparation
2 suitable for oral or rectal administration according to claim 11
3 wherein to adjust the pH from 3 to 6 the ketoglutaric acid is
4 partly to entirely used in the form of its monosalt with sodium
5 and/or potassium and in which extenders and if desired also
6 disaccharides are mixed therewith and to this mixture the ~~compound~~
7 ~~promoting azomethine formation~~ 5-hydroxymethyl-furfural, the N-
8 acetyl-seleno-L-methionine and the N-acetyl-L-methionine are added
9 whereupon the mixture is put up in the desired form of administer-
10 ing as a particle, granulate, in tablets, or in an irrigating
11 liquid.

16. (Canceled)

17. (Canceled)

1 18. (Previously presented) A cytocidal method of treat-
2 ing a malignant breast, uterine, esophageal, bladder or lung tumor
3 in a patient afflicted with said malignant tumor which comprises
4 the step of administering to said patient, an amount of the thera-
5 peutic agent defined in claim 1, effective to treat the malignant
6 tumor by suppressing angiogenic activity of the tumor.

1 19. (Previously presented) The cytocidal method of
2 treating a malignant tumor defined in claim 18 wherein the thera-
3 peutic agent is administered to the patient orally, rectally, in
4 the form of an irrigation, or as an intravenous infusion.

1 20. (Previously presented) The cytocidal method of
2 treating a malignant tumor defined in claim 19 wherein the thera-
3 peutic agent is administered to the patient as an intravenous
4 infusion.

21. (Canceled)

22. (Canceled)

1 23. (Allowed) A therapeutic agent administrable as an
2 intravenous infusion, which consists essentially of:
3 alpha-ketoglutaric acid 3 - 20 g/l
4 5-hydroxymethylfurfural 1 - 3 g/l
5 N-acetyl-seleno-L-methionine 1.4 - 2.3 mg/l

6 N-acetyl-L-methionine 70 - 230 mg/l
7 glucose 20 - 100 g/l
8 sodium ion 60 - 160 mmol/l and
9 potassium ion 15 - 40 mmol/l
10 in combination with a pharmaceutically acceptable inert carrier
11 suitable for intravenous administration.

1 24. (Allowed) A cytocidal method of treating a malignant
2 breast, uterine, esophageal, bladder or lung tumor in a patient
3 afflicted with said malignant tumor which comprises the step of
4 administering to said patient, by intravenous infusion, an amount
5 of the therapeutic agent defined in claim 23, effective to treat
6 the malignant tumor by suppressing angiogenic activity of the
7 tumor.

1 25. (Allowed) The therapeutic agent administrable as an
2 intravenous infusion, defined in claim 23 wherein the alpha-
3 ketoglutaric acid is present in an amount of 9.0 g/l; the 5-
4 hydroxymethylfurfural is present in an amount of 3.0 g/l; the N-
5 acetyl-seleno-L-methionine is present in an amount of 2.0 mg/l; and
6 the N-acetyl-L-methionine is present in an amount of 100 mg/l.

1 26. (Allowed) A cytocidal method of treating a breast,
2 uterine, esophageal, bladder or lung carcinoma in a patient af-
3 flicted with said carcinoma which comprises the step of administer-
4 ing to said patient, by intravenous infusion, an amount of the
5 therapeutic agent defined in claim 25, effective to treat the
6 carcinoma by suppressing angiogenic activity of the carcinoma.